ABSTRACT

A method and apparatus for a universal transmitter that can learn and
emulate the transmission frequency and modulation pattern of a template
transmitter, without prior knowledge of such information. The universal

5   transmitter is then operable to transmit the "learned" modulation pattern and
transmission frequency to actuate a remote control receiver operable with the
template transmitter. The universal transmitter is capable of recognizing a fixed-
code pulse-modulated, frequency shift keying, or other transmission without prior
knowledge of the frequency and modulation pattern. The universal transmitter

10   includes multiple programmable switches to allow the universal transmitter to learn
the modulation pattern and frequency of multiple transmitting sources and store the
values in non-volatile memory.